

What is claimed is:

1 1. A logic device re-programmable without
2 terminating operation, in the logic device a logic circuit
3 is configured and maintained based on logic circuit
4 configuration data for implementing a desired function,
5 said logic device comprising:
6 a memory holding the logic circuit configuration data
7 for configuring and maintaining said logic circuit; and
8 an address controller for writing, in an unused area
9 of said memory, logic circuit configuration data for
10 configuring and maintaining one or more additional logic
11 circuits without terminating operation of said logic
12 device.

1 2. A logic device re-programmable without
2 terminating operation as set forth in claim 1, wherein,
3 in case of dissatisfactory functioning of a logic circuit,
4 said address controller writes, in the unused memory area
5 of said memory, logic circuit configuration data for
6 configuring and maintaining (i) a substitute logic circuit
7 which realizes a same function of the dissatisfactory logic
8 circuit and (ii) a switch logic circuit for switching
9 between the dissatisfactory logic circuit and said
10 substitute logic circuit, as said additional logic
11 circuits.